

Laser Cutting Process



Fabrico's laser system accurately cuts very small features and intricate designs on a wide variety of flexible materials. State-of-the-art equipment maximizes efficiency and minimizes production costs. Strategic alliances with world-class vendors support an extensive selection of innovative materials. ISO 9001:2008 processes ensure high output quality.

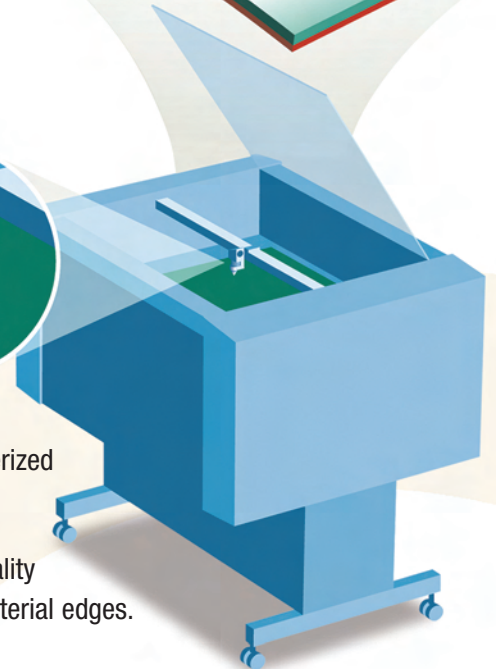
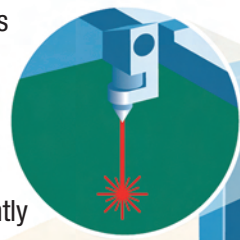
Advanced Laser Cutting Capabilities

Laser cutting can produce 0.040" slots and 0.010" diameters, significantly smaller than the features cut by other types of converting equipment.

Brushless servo motors provide superior cutting accuracy and repeatability. The computerized laser system holds tight tolerances to meet the requirements of demanding applications.

High cutting speed (140 inches per second) boosts throughput, while excellent beam quality ensures superior cutting results, including "clean" cuts with no strands hanging from material edges. In addition, the system allows tight nesting of different pieces, which reduces scrap.

Individual parts can range in size up to 17" x 28". Materials include tapes, foams, rubbers, and films.



Knowing when to use Fabrico's Cutting Services

Q) Is laser cutting right for your product?

Capable of cutting most flexible materials in thickness down to 0.001", Fabrico's laser system offers a number of significant benefits. When used on very high bond tapes, for example, the laser beam cauterizes the cut edge, thereby preventing the tape from re-bonding itself and eliminating the need to apply a release agent to the tape after cutting. The system is also ideal for prototyping applications.

Q) Does your product require a cut score?

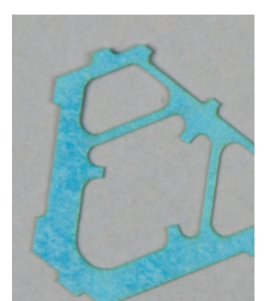
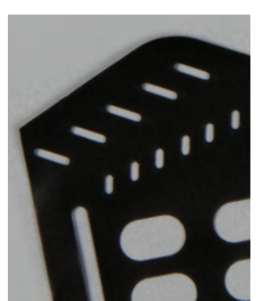
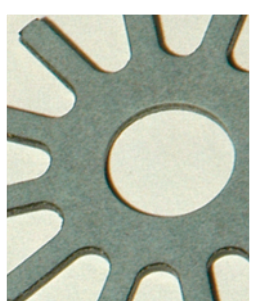
A material is easier to bend when it is scored. Scoring requires that a material is cut part of the way through the material layer. With its laser system, Fabrico can control the depth of a cut, allowing for precise scoring.

Q) Do you need laser etching?

Fabrico's laser system can burn away the top layer of plastic laser etch materials to expose the layer underneath. In addition to plastics, laser etching can be done on materials such as granite, porcelain, glass, and wood.



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Materials

Fabrico has longstanding relationships with world-class providers of innovative materials.

These relationships ensure the widest selection of materials at the lowest cost.

The following materials may be used in Fabrico's laser cutting process:

Laminates	Tapes	Films	Papers	Foams	Rubber	Coated Fabrics and Mats
3M™ IPT Arlon™ DuPont® Fibertek™ Isovolta Von Roll®	3M™ Adchem® Avery Dennison® Covalence™ Flexcon Intertape Polymer Group™ MacTac™ PPI Saint-Gobain Tyco	DuPont DuPont-Teijin® ITW Formex™ Mobil™ Pall Venting Media Sabc Sumitomo	3M IPT Avery Dennison Bedford Cottrell Paper Co. Inc. DuPont Nomex® EHV Weidmann Oliner Pucaro Toyo	E-A-R Specialty Composites™ Foamex Hickory Springs Innofoam™ Qycell™ Rogers Saint-Gobain	E-A-R Specialty Composites Rogers Corporation Saint-Gobain	3M Berquist Chomerics™ CHR Furon Isovolta Saint-Gobain Thermagon Von Roll

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Technical Sales Representatives

For more information on laser cutting services or a complete list of available materials, call our toll-free number 800-351-8273.



Fabrico Headquarters
 4175 Royal Drive, Suite 800
 Kennesaw, GA 30144
 Phone: 678-202-2700
 Fax: 678-202-2702
 Toll Free: 800-351-8273
 E-mail: info@fabrico.com

www.fabrico.com